METHOD AND SYSTEM FOR POWER-CONSERVING INTERFERENCE AVOIDANCE IN COMMUNICATION BETWEEN A MOBILE UNIT AND A BASE UNIT IN A WIRELESS TELECOMMUNICATION SYSTEM

ABSTRACT OF THE DISCLOSURE

A method for avoiding interference in a wireless telecommunication system is provided. The method includes providing communication between a first and second component at an initial frequency. A plurality of successive line quality indicators is determined at a line quality monitor of the first component. Consecutive line quality indicators are summed over a predetermined time to determine a slow hop count. A determination is made as to whether the slow hop count is greater than a slow hop threshold. A determination is made as to whether to provide communication with the first component at a second frequency when the slow hop count is greater than the slow hop threshold. This determination is based on a power level of the second component and a communication strength received from the second component at the first component. A signal is communicated from the first component to the second component requesting the second component to provide communication at the second frequency.